

10/562932
IAPG Rec'd PCT/PTO 30 DEC 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Inventors: Yutaka MURAKAMI, et al.

Application No.: New PCT National Stage Application

Filed: December 30, 2005

For: COMMUNICATION APPARATUS AND COMMUNICATION METHOD

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents
Washington, DC 20231

Dear Sir:

Pursuant to Rules 56 and 99, Applicants hereby call the attention of the Patent Office to the art listed on the attached Form PTO 1449. Copies of the art cited in the International Search Report (ISR), which issued by the JPO, are made available to the U.S. examiner in the national stage application, pursuant to MPEP 1893.03(g), and therefore copies of such art are not submitted herewith. The art cited in the ISR is listed on the attached PTO-1449 for an indication of consideration by the examiner. Copies of any other references listed on the PTO-1449, besides those cited in the ISR, are submitted herewith. The following documents are discussed in the present application: "TAROKH et al.," page 2, line 1 et seq., "ALAMOUTI," page 24, line 5 et seq., "YUDA et al.," page 158, line 21 through page 159, line 1, et seq., "UNGERBOECK," page 165, line 11 et seq. and "MIYASHITA," page 171, line 2 et seq.

Applicants present this art so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see Beckman Instruments, Inc. v. Chemtronics, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rules 104 and 106.

1562932
30 DEC 2005

Applicants respectfully request that this art be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

Respectfully submitted,



James E. Ledbetter
Registration No. 28,732

Date: December 30, 2005

JEL/spp

ATTORNEY DOCKET NO. L9289.05197

STEVENS, DAVIS, MILLER & MOSHER, L.L.P.
1615 L STREET, NW, Suite 850
WASHINGTON, DC 20043-4387
Telephone: (202) 785-0100
Facsimile: (202) 408-5200

FORM PTO-1449 U.S. Department of Commerce
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

L9289.05197

SERIAL NO.

New PCT Nat'l Stage
Application

APPLICANT

Yutaka MURAKAMI, et al.

FILING DATE

December 30, 2005

GROUP

Unassigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
/LN/	2002 0 6 7 4 9 1	08/2002	WO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/LN/	PCT International Search Report dated December 7, 2004.
/LN/	J. KATSUMOTO, et al.: "MIMO Channel ni Okeru Tekio Hencho o Mochiita SDM-OFDM System," May 16, 2003, The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, vol. 103, no. 66, pp. 75-82.
/LN/	V. TAROKH, et al.: "Space-Time Block Codes from Orthogonal Designs," IEEE Transactions on Information Theory, vol. 45, no. 5, July 1999, pp. 1456-1467.
/LN/	S. ALAMOUTI: "A Simple Transmit Diversity Technique for Wireless Communications," IEEE Journal on Select Areas in Communications, vol. 16, no. 8, Oct. 1998, pp. 1451-1458.
/LN/	Y. MURAKAMI, et al.: "Performance Analysis of MIMO Systems under Rician Fading Channels," Technical Report of IEICE, NS2003-67, RCS2003-90, July 2003, The Institute of Electronics, Information and Communications Engineers, pp. 1-6 with English Abstract.
/LN/	G. UNGERBOECK: "Channel Coding with Multilevel/Phase Signals," IEEE Transactions on Information Theory, vol. IT-28, no. 1, January 1982, pp. 55-67.
/LN/	K. MIYASHITA, et al.: "Eigenbeam-Space Division Multiplexing (E-SDM) in a MIMO Channel," Technical Report of IEICE, RCS2002-53, May 2002, The Institute of Electronics, Information and Communication Engineers, pp. 13-18.

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.